JL 10 2006 LU  Under the Pack york Reductio	n act of 1995, no perso	ona are required to	J.S. Pate	ent and Trademark Off	ice: U.S. I	DEPARTM	PTO/SB/21 (09-04) r use through 7/31/2006 IENT OF COMMERCE d OMB control number.
TR	ANSMITTAL	_		Application Number	er	10/019,	450
	FORM			Filing Date		May 23,	, 2002
			First Named Inventor		Ravi Ch	andran et al.	
				Art Unit		2626	
(to be used for all o	correspondence at	ter initial filino)		Examiner Name		James 9	S. Wozniak
Total Number of Pages				Attorney Docket N	umber	12447U	S02
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Fee Transmittal Fo	aration(s) Request	Petition Petition Provisio	to Cornal Apport	nvert to a plication respondence	to 1	real Con Appeals a peal Com peal Notice	nnce Communication nmunication to Board and Interferences nmunication to TC e, Brief, Reply Brief) Information
Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Document(s)  Reply to Missing Parts/		Reques	it for Re	Refund Of CD(s)  pee Table on CD  Return-Receipt Pos  identify below):		sure(s) (please	
Incomplete Application		Remarks	Сор	pies of Other Publications listed on IDS			3
	SIGNAT	URE OF APP	LICAN	T, ATTORNEY, OR	AGENT	Γ	
Firm or Individual Name	McAndrews He			· · · · · · · · · · · · · · · · · · ·	- //		56,000
Name (Print/type)	James H. Willia		Re	gistration No. (Attorne	<del>-                                    </del>		56,883
Signature	James H.	Williams			Da	te: July 10	, 2006

**EXPRESS MAIL DEPOSIT** 

"Express Mail" mailing label number : EV 726843590 US Date of Deposit July 10, 2006.

PTO/SB/17 (01-06)
Approved for use through 07/31/2006, OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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Fees corsuant to the consolidated Appropriates Act. 2005 (H.R. 4818).			4040)	Complete if Known				
FEE TRANSMITTAL			4818). Apr	olication Number	10/019,450			
			Filir	ng Date	May 28, 2002			
f	or FY 2	006	Firs	st Named Inventor	Ravi Chandran et al.			
Applicant claims small entity status. See 37 CFR 1.27			27 Exa	aminer Name	James S. Wozniak			
Applicant claims small entity status. See 57 Gr N 1.27			Art	Unit	2626			
TOTAL AMOUNT	OF PAYMENT (	(\$) 180.00	Atto	orney Docket No.	12447US02	1.7.4		
METHOD OF PAYMEN	<u></u>	<del></del>						
Check C	redit Card	Money Order 🗌	None _	Other (please i	identify):			
Deposit Acco	ount Deposit Acc	count Number: 13-001	<u>17</u>	Deposit Account	Name: McAndrews	Held & Malloy	:	
For the above	-identified deposit	account, the Director	r is hereby	authorized to (che	eck all that apply)			
Charge	Fee(s) indicated I	below		Charge Fee	(s) indicated below,	except for the	filing fee	
	any additional fee	e(s) or underpayment 1.17	s of fees(s)	Credit any o	verpayments			
WARNING: Information information and author		become public. Credit 38.	t card inforr	mation should not b	e included on this fo	rm. Provide cre	dit card	
FEE CALCULATION	I (All the fees bel	low are due upon fili	ing or may	/ be subject to a	surcharge.)			
1. BASIC FILING, SI	EARCH, AND EX	AMINATION FEES						
	FIL	ING FEES Small Entity	-	CH FEES Small Entity	EXAMINATION Sma	l FEES Ill Entity		
Application Ty	rpe Fee (\$)	Fee(\$)	Fee(\$) <sup>⊆</sup>	Fee(\$)	FPP(N)	ee(\$)	Fees Paid(\$)	
Utility	300	150	500	250	200	100		
Design	200	100	100	50	130	65		
Plant	200	100	300	150	160	80		
Reissue	300	150	500	250	600	300		
Provisional	200	100	0	0	0	0		
2. EXCESS CLAIM I	EES					<b>-</b>	Small Entity	
Fee Description Each claim over 20 (	includina Reissue	s)				<u>Fee</u> 50		
Each independent cl	-	•				20		
Multiple dependent of			(4)			36	-	
<u>Total Claims</u>	-20 or HP	<u>tra Claims</u> <u>Fee</u> x	<u>e(\$)</u> =	Fee Paid (\$)	_	<u>ultiple Depen</u> <u>ee</u>	Fee Paid (\$)	
HP = highest num		s paid for, if greater th	nan 20		. <del>-</del>	<u></u>	10010107	
Indep. Claims			e(\$)	Fee Paid (\$)				
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_	·	nt claims paid for, if g	reater than	า 3				
3. APPLICATION SIZE FEE  If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
<u>Total Sheets</u>	Extra SI				or fraction thereof	<u>Fee(\$)</u>	Fee Paid(\$)	
4 OTUED 555(0)	-100	/50		up to a whole num	iber) x		=	
4. OTHER FEE(S)	cification \$120 for	a (no small ontitudica	count)				Fee Paid(\$)	
Non-English Specification, \$130 fee (no small entity discount)				7(0)			<del></del>	
Other (e.g., late f	iing surcharge):	Fee set forth in 37	O.F.K. 1.1	<i>τ</i> (μ)			\$180.00	
SUBMITTED BY								
Signature	James H. W	illia a		Registration No.	56,883	Telephone	(312)775-8000	
Name (print/type)	James H. Williams			(Attorney/Agent)	1	Date	July 10, 2006	



## UNITED STATES PATENT AND TRADEMARK OFFICE (Attorney Docket No. 12447US02)

In the Application of:

Ravi Chandran et al.

Serial No.

10/019,450

Filed:

May 28, 2002

For:

Coded Domain Adaptive Level

Control of Compressed Speech

Examiner:

James S. Wozniak

Group Art Unit:

2626

**EXPRESS MAIL:** 

EV 726843590 US

DATE:

July 10, 2006

## INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### Dear Sirs:

Pursuant to 37 C.F.R. § 1.97-1.98 and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, it is respectfully requested that the following references be considered in the examination of the above-identified patent application:

U.S. Patent No.	<u>Date</u>	<u>Name</u>
4,969,192	11-06-1990	Chen et al.
5,097,507	03-17-1992	Zinser et al.
5,371,853	12-06-1994	Kao et al.
5,495,555	02-27-1996	Swaminathan
5,615,298	03-25-1997	Chen
5,633,982	05-27-1997	Ganesan et al.
5,651,091	07-22-1997	Chen
5,659,622	08-19-1997	Ashley

07/12/2006 HDESTA1 00000089 130017 10019450 180.00 DA

Liu	10-21-1997	5,680,508
Moriya et al.	03-24-1998	5,732,188
Oshikiri et al.	03-02-1999	5,878,387
Mermelstein et al.	11-30-1999	5,995,923
Yue et al.	02-15-2000	6,026,356
Levine	07-24-2001	6,266,644
Ertem et al.	09-17-2002	6,453,289

## OTHER PUBLICATIONS

- 1. A.M. KONDOZ, "Digital Speech Encoding for Low Bit Rate Communications Systems," Chapter 2, pp. 5-32, John Wiley & Sons, 1994.
- 2. A.M. KONDOZ, "Digital Speech Encoding for Low Bit Rate Communications Systems," Chapter 3, pp. 35-77, John Wiley & Sons, 1994.
- 3. A.M. KONDOZ, "Digital Speech Encoding for Low Bit Rate Communications Systems," Chapter 6, pp. 141-213, John Wiley & Sons, 1994.
- 4. J.R. DELLER, J.G. PROAKIS, J.H.L. HANSEN, "Discrete-Time Processing of Speech Signals," Chapter 7, Prentice-Hall, Inc., 1987.
- 5. GSM 04.53, "Digital cellular telecommunications system (Phase 2+); Inband Tandem Free Operation (TFO) of Speech Codecs," October 1998.
- 6. GSM 06.20, "Digital cellular telecommunications system (Phase 2+); Half rate speech; Half rate speech transcoding," May 1998.
- 7. GSM 06.82, "Digital cellular telecommunications system (Phase 2+); Inband Tandem Free Operation (TFO) of Speech Codecs," ETSI, March 2000.
- 8. ITU-T Recommendation G.711, "General Aspects of Digital Transmission Systems," 1993.

Attorney Docket No. 12447US02

OTHER PUBLICATIONS (continued)

9. L. RABINER & R. SCHAFER, "Digital Processing of Speech Signals, Chapter 5, pp.

179-216, Signal Processing, Prentice-Hall, 1978.

10. SAEED V. VASEGHI, "Advanced Signal Processing and Digital Noise Reduction,",

Chapter 9, pp. 242-260, ISBN WILEY 0471958751, 1996.

11. GSM 06.31, version 5.0.1, "Digital cellular telecommunications system; Full rate speech;

Discontinuous Transmission (DTX) for full rate speech traffic channels," May 1997.

The above-identified references are listed on the attached Form PTO/SB/08a and copies

are also enclosed herewith. This submission is in no way intended as an admission that the

above-cited references constitute prior art. Applicant expressly retains the right to take any

actions necessary to remove the above-cited references from the available prior art.

Consideration of the above-identified references in the examination of the present patent

application is respectfully requested.

The Commissioner is hereby authorized to charge the \$180.00 fee set forth in 37 C.F.R.

1.17 (p) to the Deposit Account of McAndrews, Held & Malloy, No. 13-0017. Additionally, the

Commissioner is hereby authorized to charge any additional fees which may be required or credit

any overpayment to Account No. 13-0017.

Respectfully submitted,

July 10, 2006

Date

James H. Williams

Registration No. 56,883

James H. Williams

MCANDREWS, HELD & MALLOY, LTD. 500 West Madison Street, 34th Floor Chicago, Illinois 60661

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12447US02

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r the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. of form 1449A/PTO Complete if Known Application Number 10/019,450 INFORMATION DISCLOSURE Filing Date 05/28/2002 STATEMENT BY APPLICANT First Named Inventor Ravi Chandran Art Unit 2626 (Use as many sheets as necessary) Examiner Name James S. Wozniak

Attorney Docket Number

	U.S. PATENT DOCUMENTS					
Examiner Cite		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relev	
initials .	No.	Number - Kind Code <sup>2</sup> (if known)	MM-DO-1111		Passages or Relevant Figures Appear	
	A-1	US- 4,969,192	11-06-1990	Chen et al.		
	A-2	US- 5,097,507	03-17-1992	Zinser et al.		
	A-3	US- 5,371,853	12-06-1994	Kao et al.		
	A-4	US- 5,495,555	02-27-1996	Swaminathan		
	A-5	_US- 5,615,298	03-25-1997	Chen		
	A-6	US- 5,633,982	05-27-1997	Ganesan et al.		
	A-7	US- 5,651,091	07-22-1997	Chen		
	A-8	US- 5,659,622	08-19-1997	Ashley		
	A-9	US- 5,680,508	10-21-1997	Liu		
	A-10	US- 5,732,188	03-24-1998	Moriya et al.		
	A-11	US- 5,878,387	03-02-1999	Oshikiri et al.		
	A-12	US- 5,995,923	11-30-1999	Mermelstein et al.		
	A-13	US- 6,026,356	02-15-2000	Yue et al.		
	A-14	US- 6,266,644	07-24-2001	Levine		
	A-15	US- 6,453,289	09-17-2002	Ertem et al.		
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	FOREIGN PATENT DOCUMENTS						
Examiner	xaminer Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>®</sup>	
Initials*	No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Date MM-DD-YYYY	Applicant of Cited Document			
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Examiner Signature	Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not Considered. Include copy of this form with next communication to applicant. 

Applicant's unique citation designation number (optional). 

See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 

Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 

Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 

Applicant is to place a check mark here if English language. Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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die for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/019,450 Filing Date 05/28/2002 First Named Inventor Ravi Chandran Art Unit 2626 Examiner Name James S. Wozniak 12447US02

(Use as many sheets as necessary)

Sheet 2 Attorney Docket Number of

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				
	C-1	A.M. KONDOZ, "Digital Speech Encoding for Low Bit Rate Communications Systems," Chapter 2, pp. 5-32, John Wiley & Sons, 1994.					
	C-2	A.M. KONDOZ, "Digital Speech Encoding for Low Bit Rate Communications Systems," Chapter 3, pp. 35-77, John Wiley & Sons, 1994.					
	C-3	A.M. KONDOZ, "Digital Speech Encoding for Low Bit Rate Communications Systems," Chapter 6, pp. 141-213, John Wiley & Sons, 1994.					
	C-4	J.R. DELLER, J.G. PROAKIS, J.H.L. HANSEN, "Discrete-Time Processing of Speech Signals," Chapter 7, Prentice-Hall, Inc., 1987.					
	C-5	GSM 04.53, "Digital cellular telecommunications system (Phase 2+); Inband Tandem Free Operation (TFO) of Speech Codecs," October 1998.					
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	C-8	ITU-T Recommendation G.711, "General Aspects of Digital Transmission Systems," 1993.					
	C-9	L. RABINER & R. SCHAFER, "Digital Processing of Speech Signals, Chapter 5, pp. 179-216, Signal Processing, Prentice-Hall, 1978.					
	C-10	SAEED V. VASEGHI, "Advanced Signal Processing and Digital Noise Reduction," Chapter 9, pp. 242-260, ISBN WILEY 0471958751, 1996.					
	C-11	GSM 06.31, version 5.0.1, "Digital cellular telecommunications system; Full rate speech; Discontinuous Transmission (DTX) for full rate speech traffic channels," May 1997.					

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.